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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Tue Oct 30 12:16:48 EDT 2007

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Application No: 10687799

Version No: 2.0

Input Set:

Output Set:

Started: 2007-10-09 15:08:01.476

Finished: 2007-10-09 15:08:03.394

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 918 ms

Total Warnings: 61

Total Errors: 0

No. of SeqIDs Defined: 95

Actual SeqID Count: 95

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (31)
W 213	Artificial or Unknown found in <213> in SEQ ID (32)
W 213	Artificial or Unknown found in <213> in SEQ ID (33)
W 213	Artificial or Unknown found in <213> in SEQ ID (34)
W 213	Artificial or Unknown found in <213> in SEQ ID (35)
W 213	Artificial or Unknown found in <213> in SEQ ID (36)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (41)
W 213	Artificial or Unknown found in <213> in SEQ ID (42)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)
W 213	Artificial or Unknown found in <213> in SEQ ID (44)
W 213	Artificial or Unknown found in <213> in SEQ ID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48)
W 213	Artificial or Unknown found in <213> in SEQ ID (49)
W 213	Artificial or Unknown found in <213> in SEQ ID (50)

Input Set:

Output Set:

Started: 2007-10-09 15:08:01.476
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Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 918 ms
Total Warnings: 61
Total Errors: 0
No. of SeqIDs Defined: 95
Actual SeqID Count: 95

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Teeling, Jessica
 Ruuls, Sigrid
 Glennie, Martin
 van de Winkel, Jan G.J.
 Parren, Paul
 Petersen, Jorgen
 Baadsgaard, D.M.Sc., Ole
 Huang, Haichun

<120> HUMAN MONOCLONAL ANTIBODIES AGAINST CD20

<130> 4086.1000-002

<140> 10687799

<141> 2003-10-17

<150> 60/419,163

<151> 2002-10-17

<150> 60/460,028

<151> 2003-04-02

<160> 95

<170> FastSEQ for Windows Version 4.0

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<211> 424

<212> DNA

<213> Homo sapiens

<400> 1

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tgtgcagcct ctggattcac ctttaatgat tatgccatgc actgggtccg gcaagctcca 180
gggaagggcc tggagtgggt ctcaactatt agttggaata gtggttccat aggctatgcg 240
gactctgtga agggccgatt caccatctcc agagacaacg ccaagaagtc cctgtatctg 300
caaatgaaca gtctgagagc tgaggacacg gccttgatt actgtgcaaa agatatacag 360
tacggcaact actactacgg tatggacgtc tggggccaag ggaccacggg caccgtctcc 420
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<210> 2

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2

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Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20           25           30
Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
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35	40	45
Asn Asp Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu		
50	55	60
Glu Trp Val Ser Thr Ile Ser Trp Asn Ser Gly Ser Ile Gly Tyr Ala		
65	70	75
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys		
85	90	95
Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu		
100	105	110
Tyr Tyr Cys Ala Lys Asp Ile Gln Tyr Gly Asn Tyr Tyr Tyr Gly Met		
115	120	125
Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser		
130	135	140

<210> 3
 <211> 382
 <212> DNA
 <213> Homo sapiens

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 ctctcctgca gggccagtca gagtgtttag agctacttag cctggtacca acagaaacct 180
 ggccaggctc ccaggctcct catctatgat gcatccaaca gggccactgg catcccagcc 240
 aggttcagtg gcagtgggtc tgggacagac ttactctca ccatcagcag cctagagcct 300
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 gggacacgac tggagattaa ac 382

<210> 4
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 4
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Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser
20 25 30
Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
35 40 45
Val Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
50 55 60
Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala
65 70 75 80
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
85 90 95
Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser
100 105 110
Asn Trp Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
115 120 125

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 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 5

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tgtgcagcct ctggattcac ctttcatgat tatgccatgc actgggtccg gcaagctcca 180
gggaagggcc tggagtgggt ctcaactatt agttggaata gtggtagcat aggctatgcg 240
gactctgtga agggccgatt caccatctcc agagacaacg ccaagaactc cctgtatctg 300
caaatgaaca gtctgagagc tgaggacacg gccttgattt actgtgcaaa agatatacag 360
tacggcaact actactacgg tatggacgtc tggggccaag ggaccacggg caccgtctcc 420
tcag 424
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<210> 6

<211> 141

<212> PRT

<213> Homo sapiens

<400> 6

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Met Glu Leu Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
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Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
 20          25          30
Pro Asp Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35          40          45
His Asp Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50          55          60
Glu Trp Val Ser Thr Ile Ser Trp Asn Ser Gly Thr Ile Gly Tyr Ala
 65          70          75          80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
 85          90          95
Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu
100          105          110
Tyr Tyr Cys Ala Lys Asp Ile Gln Tyr Gly Asn Tyr Tyr Tyr Gly Met
115          120          125
Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
130          135          140
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<210> 7

<211> 382

<212> DNA

<213> Homo sapiens

<400> 7

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ctctcctgca gggccagtcg gagtggttagc agctacttag cctggtacca acagaaacct 180
ggccaggctc ccaggctcct catctatgat gcatccaaca gggccactgg catcccagcc 240
aggttcagtg gcagtgggtc tgggacagac ttcactctca ccatcagcag cctagagcct 300
gaagattttg cagtttatta ctgtcagcag cgtagcaact ggccgatcac cttcggccaa 360
gggacacgac tggagattaa ac 382
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<210> 8

<211> 127

<212> PRT

<213> Homo sapiens

<400> 8

Met	Glu	Ala	Pro	Ala	Gln	Leu	Leu	Phe	Leu	Leu	Leu	Leu	Trp	Leu	Pro
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Asp	Thr	Thr	Gly	Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser
			20					25					30		
Leu	Ser	Pro	Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser
		35					40					45			
Val	Ser	Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro
	50					55					60				
Arg	Leu	Leu	Ile	Tyr	Asp	Ala	Ser	Asn	Arg	Ala	Thr	Gly	Ile	Pro	Ala
65					70				75					80	
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser
			85					90					95		
Ser	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Arg	Ser
		100						105					110		
Asn	Trp	Pro	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	
		115					120					125			

<210> 9
 <211> 433
 <212> DNA
 <213> Homo sapiens

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 gttcagctgg tgcagtctgg gggaggcttg gtacatcctg gggggtcctt gagactctcc 120
 tgtacaggct ctggattcac cttcagttac catgctatgc attgggttcg ccaggctcca 180
 ggaaaaggtc tggaatgggt atcaattatt gggactgggt gtgtcacata ctatgcagac 240
 tccgtgaagg gccgattcac catctccaga gacaatgtca agaactcctt gtatcttcaa 300
 atgaacagcc tgagagccga ggacatggct gtgtattact gtgcaagaga ttactatggt 360
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 accgtctcct cag 433

<210> 10
 <211> 144
 <212> PRT
 <213> Homo sapiens

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Val	Gln	Cys	Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Gly	Gly	Leu	Val	His
		20						25					30		
Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Thr	Gly	Ser	Gly	Phe	Thr	Phe
		35					40					45			
Ser	Tyr	His	Ala	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu
	50					55					60				
Glu	Trp	Val	Ser	Ile	Ile	Gly	Thr	Gly	Gly	Val	Thr	Tyr	Tyr	Ala	Asp
65					70				75					80	
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Val	Lys	Asn	Ser
			85					90					95		
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Met	Ala	Val	Tyr
		100						105					110		
Tyr	Cys	Ala	Arg	Asp	Tyr	Tyr	Gly	Ala	Gly	Ser	Phe	Tyr	Asp	Gly	Leu
	115						120						125		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser
	130						135					140			

<210> 11
<211> 382
<212> DNA
<213> Homo sapiens

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ctctcctgca gggccagtca gagtggttag agctacttag cctggtacca acagaaacct 180
ggccaggctc ccaggctcct catctatgat gcatccaaca gggccactgg catcccagcc 240
aggttcagtg gcagtgggtc tgggacagac ttcactctca ccatcagcag cctagagcct 300
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<210> 12
<211> 127
<212> PRT
<213> Homo sapiens

<400> 12
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20 25 30
Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
35 40 45
Val Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
50 55 60
Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala
65 70 75 80
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
85 90 95
Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser
100 105 110
Asp Trp Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
115 120 125

<210> 13
<211> 6
<212> PRT
<213> Homo sapiens

<400> 13
Asn Asp Tyr Ala Met His
1 5

<210> 14
<211> 17
<212> PRT
<213> Homo sapiens

<400> 14
Thr Ile Ser Trp Asn Ser Gly Ser Ile Gly Tyr Ala Asp Ser Val Lys

1 5 10 15
Gly

<210> 15
<211> 13
<212> PRT
<213> Homo sapiens

<400> 15
Asp Ile Gln Tyr Gly Asn Tyr Tyr Tyr Gly Met Asp Val
1 5 10

<210> 16
<211> 11
<212> PRT
<213> Homo sapiens

<400> 16
Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala
1 5 10

<210> 17
<211> 7
<212> PRT
<213> Homo sapiens

<400> 17
Asp Ala Ser Asn Arg Ala Thr
1 5

<210> 18
<211> 9
<212> PRT
<213> Homo sapiens

<400> 18
Gln Gln Arg Ser Asn Trp Pro Ile Thr
1 5

<210> 19
<211> 6
<212> PRT
<213> Homo sapiens

<400> 19
His Asp Tyr Ala Met His
1 5

<210> 20
<211> 17

<212> PRT

<213> Homo sapiens

<400> 20

Thr Ile Ser Trp Asn Ser Gly Thr Ile Gly Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 21

<211> 13

<212> PRT

<213> Homo sapiens

<400> 21

Asp Ile Gln Tyr Gly Asn Tyr Tyr Tyr Gly Met Asp Val

1 5 10

<210> 22

<211> 11

<212> PRT

<213> Homo sapiens

<400> 22

Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala

1 5 10

<210> 23

<211> 7

<212> PRT

<213> Homo sapiens

<400> 23

Asp Ala Ser Asn Arg Ala Thr

1 5

<210> 24

<211> 9

<212> PRT

<213> Homo sapiens

<400> 24

Gln Gln Arg Ser Asn Trp Pro Ile Thr

1 5

<210> 25

<211> 6

<212> PRT

<213> Homo sapiens

<400> 25

Ser Tyr His Ala Met His

1 5

<210> 26

<211> 16

<212> PRT

<213> Homo sapiens

<400> 26

Ile Ile Gly Thr Gly Gly Val Thr Tyr Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 27

<211> 17

<212> PRT

<213> Homo sapiens

<400> 27

Asp Tyr Tyr Gly Ala Gly Ser Phe Tyr Asp Gly Leu Tyr Gly Met Asp
1 5 10 15
Val

<210> 28

<211> 11

<212> PRT

<213> Homo sapiens

<400> 28

Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala
1 5 10

<210> 29

<211> 7

<212> PRT

<213> Homo sapiens

<400> 29

Asp Ala Ser Asn Arg Ala Thr
1 5

<210> 30

<211> 9

<212> PRT

<213> Homo sapiens

<400> 30

Gln Gln Arg Ser Asp Trp Pro Leu Thr
1 5

<210> 31

<211> 32

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

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 <210> 32
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 32
 gctgtgcccc cagaggtgct cttggagg 28

 <210> 33
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 <212> DNA
 <213> Artificial Sequence

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 <223> Primer

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 <222> (6)...(6)
 <223> n = T or G

 <400> 33
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 <210> 34
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 <213> Artificial Sequence

 <220>
 <223> Primer

 <220>
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 <223> n= C or G

 <220>
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 <223> n = T or G

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<210> 35
 <211> 20
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 <220>
 <223> Primer

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 gaggtgcagc tgggtgcagtc 20

 <210> 36
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 36
 atggactgga cctggagcat c 21

 <210> 37
 <211> 20
 <212> DNA
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 <220>
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 <400> 37
 atggaattgg ggctgagctg 20

 <210> 38
 <211> 20
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 <220>
 <223> Primer

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 <210> 39
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 <220>
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<400> 39
atgaaacacc tgtggttctt c 21

<210> 40
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 40
atggggtcaa ccgccatcct 20

<210> 41
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
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<400> 41
tgccaggggg aagaccgatg g 21

<210> 42
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<212> DNA
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<220>
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<220>
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<223> n = A or G

<220>
<221> variation
<222> (14)...(14)
<223> n = C or T

<400> 42
nacatccaga tganccagtc 20

<210> 43
<211> 20
<212> DNA
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<220>
<223> Primer

<220>
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<223> n = C or T

<220>

<221> variation

<222> (7)...(7)

<223> n = C or T

<220>

<221> variation

<222> (8)...(8)

<223> n = A or G

<400> 43

gncatcnnga tgaccagtc

20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 44

gatattgtga tgaccagac

20

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Primer

<220>

<221> variation

<222> (15)...(15)

<223> n = A or G

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gaaattgtgt tgacncagtc

20

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<220>

<221> variation

<222> (9)...(9)
 <223> n = A or G

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 <213> Artificial Sequence

<220>
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<400> 47
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<210> 48
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 <213> Artificial Sequence

<220>
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<400> 48
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<210> 49
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 49
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<210> 50
 <211> 23
 <212> DNA
 <213> Artificial Seq